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L9: Entry 1 of 2

File: JPAB

Nov 25, 1992

PUB-NO: JP404337344A

DOCUMENT-IDENTIFIER: JP 04337344 A

TITLE: THERMOPLASTIC RESIN COMPOSITION ANTI-CORROSIVE TO METAL

PUBN-DATE: November 25, 1992

## INVENTOR-INFORMATION:

NAME

COUNTRY

FUKUMOTO, TADAO

CHIBA, KAZUMASA

## ASSIGNEE-INFORMATION:

NAME

COUNTRY

TORAY IND INC

APPL-NO: JP03109081

APPL-DATE: May 14, 1991

US-CL-CURRENT: 524/205INT-CL (IPC): C08L 25/04; C08K 3/24; C08K 3/24; C08L 25/04; C08L 57/06; C08L 77/00

## ABSTRACT:

PURPOSE: To obtain the subject thermoplastic resin composition having permanent antistaticity, remarkable anti-corrosion to metal and excellent mechanical property by compounding a specific alkali metal salt to a polyamide elastomer and a styrene-based thermoplastic resin.

CONSTITUTION: The objective resin composition is produced by compounding (A) 1-40 pts.wt. of a polyether ester amide or a polyether amide, (B) 9-5 pts.wt. of a styrene-based thermoplastic resin, preferably a rubber-modified polystyrene, ABS resin, AES resin, etc., (C) 0-5 pts.wt. of a modified vinyl polymer containing one or more kinds of functional groups selected from carboxyl group, epoxy group, amino group, hydroxyl group and polyalkylene oxide group (or its derivative) and (D) 0.01-10 pts.wt., preferably 0.05-5 pts.wt. (based on 100 pts.wt. of A+B+C) of an alkali metal salt of an acid selected from silicic acid, titanac acid, cyanic acid, acetic acid, boric acid, carbonic acid and phosphoric acid, preferably alkali metal silicate, titanate or acetate having particle diameter of  $\leq 10\mu\text{m}$ , especially  $\leq 5\mu\text{m}$ .

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Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments
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KIMC

☐ 2. Document ID: JP 2669179 B2, JP 04337344 A

L9: Entry 2 of 2

File: DWPI

Oct 27, 1997

DERWENT-ACC-NO: 1993-011657  
DERWENT-WEEK: 199748  
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TITLE: Corrosion-resistant thermoplastic resin compsn. with antistatic properties -  
obtd. by compounding alkali metal salt with mixt. comprising  
polyether:ester!:amide!, styrene!-type thermoplastic resin and modified vinyl!-type  
polymer

## PATENT-ASSIGNEE:

ASSIGNEE

CODE

TORAY IND INC

TORA

PRIORITY-DATA: 1991JP-0109081 (May 14, 1991)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2669179 B2	October 27, 1997		009	C08L025/04
<u>JP 04337344 A</u>	November 25, 1992		009	C08L025/04

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
JP 2669179B2	May 14, 1991	1991JP-0109081	
JP 2669179B2		JP 4337344	Previous Publ.
JP04337344A	May 14, 1991	1991JP-0109081	

INT-CL (IPC): C08K 3/24; C08L 25/04; C08L 57/06; C08L 77/00

ABSTRACTED-PUB-NO: JP04337344A

## BASIC-ABSTRACT:

Compsn. is obtd. by compounding 0.01-10 pts.wt. (D) an alkali metal salt of acid selected from silicic acid, titanitic acid, cyanic acid, acetic acid, boric acid, carbonic acid and phosphoric acid, to 100 pts.wt. in total of (A)+(B)+(C) consisting of (A) 1-40 pts.wt. of polyetherester amide or polyether amide, (B) 99-5 pts.wt. of a styrene-type thermoplastic resin and (C) 0-50 pts.wt. of modified vinyl type polymer contg. at least one kind of functional gp. selected from carboxyl gp., epoxy gp., amino gp., hydroxyl gp., polyalkylene oxide gp. or their derivs.

The alkali metal salt is partic. alkali metal salt of silicic acid, titanitic acid or acetic acid.

(B) is a copolymer (contg. at least 20 wt.% of styrene unit) obtd. by graft polymerising 99-20 pts.wt. of monomer or mixt. of monomer (contg. at least 20 wt.% of styrene) to 1-80 pts.wt. of rubbery polymer and their mixt. As the rubbery polymer, 10 cpds. e.g. polybutadiene, styrene-butadiene copolymer, etc. are cited.

USE/ADVANTAGE - The resin compsn. is used for housing or parts of office automation appts. appliances, etc. It has permanent antistatic properties, metal corrosion resistance and good mechanical properties e.g. impact resistance

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: CORROSION RESISTANCE THERMOPLASTIC RESIN COMPOSITION ANTISTATIC PROPERTIES OBTAIN COMPOUND ALKALI METAL SALT MIXTURE COMPRISE POLYETHER POLYESTER POLYAMIDE POLYSTYRENE TYPE THERMOPLASTIC RESIN MODIFIED POLYVINYL TYPE POLYMER

DERWENT-CLASS: A18 A23 E12 E34

CPI-CODES: A04-C02B; A05-E07; A05-F01B1; A05-F01B2; A05-H01A; A07-A04; A08-M10; E10-C04J; E31-K05A; E31-P03; E31-Q05; E32-B; E35-K04;

## CHEMICAL-CODES:

## Chemical Indexing M3 \*01\*

## Fragmentation Code

A100 A422 A940 B105 B114 B115 B701 B712 B720 B803  
B815 B831 C106 C108 C530 C801 C802 C803 C804 C805  
C807 M411 M781 M903 M904 Q130 Q462 Q603 R038

## Markush Compounds

199302-B9702-U

## Chemical Indexing M3 \*02\*

## Fragmentation Code

A100 A940 C106 C107 C520 C730 C801 C802 C803 C806  
C807 M411 M781 M903 M904 Q130 Q462 Q603 R038

## Markush Compounds

199302-B9703-U

## Chemical Indexing M3 \*03\*

## Fragmentation Code

A100 A960 C710 J0 J011 J1 J171 M210 M262 M281  
M320 M411 M510 M520 M530 M540 M620 M630 M781 M903  
M904 Q130 Q462 Q603 R038

## Markush Compounds

199302-B9703-U

## POLYMER-MULTIPUNCH-CODES-AND-KEY-SERIALS:

Key Serials: 0003 0013 0037 0039 0042 0045 0048 0051 0072 0171 0205 0218 0226 0304 0305 0306  
0307 1094 1095 1096 1279 1283 1289 1291 1588 1592 1990 2014 2015 2022 2274 2319 2553 2607  
2612 2617 2621 2629 2763 3159

Multipunch Codes: 014 02& 028 034 037 038 039 040 055 056 06- 07& 075 08& 09& 09- 10& 10- 117  
122 141 143 144 147 15- 17& 198 20- 229 231 250 27& 28& 31- 318 321 336 342 506 511 541 545  
551 556 560 567 641 688 720 724 725

## SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C1993-005224

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